



IPC48250 Series

Indoor Enclosures

IPC48250 series from IPC LTD is a fully-integrated DC power system consisting of a rectifier and controller that provides maximum efficiency for mobile communication applications such as LTE and FTTx deployments or macro stations. It is designed to meet the high-efficiency demands of mobile applications, with high reliability, high power density, and fully digital features. The built-in high efficiency R48-2000e3 rectifier also provides ultra high efficiency of up to 96%, significantly improving energy efficiency.

Main Features

- Power System up 12kW
- Ultra High efficiency R48-2000e3 rectifier
- Hot replacement
- 96.2% efficiency
- External alarms

Applications

Base Stations
 Network Applications
 Telecommunication/data networks

Technical Specifications

1. Input

Input Mode	220/380Vac three phase
Input Voltage	85Vac-305Vac, rated: 220Vac
Frequency	45 to 65 Hz
Current	6x12A max @12kW
AC Input	1x25A/3P MCB
Power Factor	>0.99 for 50%-100% load
THD (Total Harmonic Distortion)	5% for 50 %- 100% load at 208Vac, 220Vac, 230Vac, 240Vac
SPD (Parafudr)	20kA/40kA, 8/20µs

2. Output

Voltage Range	-42 to -58V DC, default value:53.5V DC
Maximum Capacity	12kW maximum (6x2kW rectifier)
Load	LLVD; 2x63A MCB, 4x16A MCB (Unit) BLVD; 2x32A MCB, 2x16A MCB, 6x63A MCB (Unit)
Battery	6x63A MCB, 6xVoltage measurement sensors 3xCURRENT measurement sensors
LVD Contactor	2x250A
External Alarm	4xdigital input; 9xrelay dry contacts output

3. General

Dimension	600mm (W) × 600mm (D) × 1700mm (H)
Weight	Power Cabinet; 105kg (excluding modules and batteries)
Efficiency	96,2%
Cooling Mode	Natural cooling
Cable Mode	Top input/output
Maintenance	Front maintain, hot replacement
Protection Level	IP20
Temperature Range	-40 to 80°C, -40 to +176°F
Humidity	0 to 95%
Safety	UL 60950-1;EN 60950-1;IEC 60950
EMC	ETSI EN300 386: 2005, Class B. FCC CFR 47 Part 15, Class B conducted and radiated EN55022, Class B conducted and radiated CISPR22, Class B conducted and radiated Telcordia GR-1089-CORE issue 6

4. Control and Monitoring

Communication	RS232, RS485, Ethernet, USB
Protocol	IPv4, IPv6, HTTPS, SNMP V2/V3, EEM, SocTpe, Rsoc, Mod Bus
Stroge Capacity	4000 history records, 60000 real time records
Display Mode	LCD screen/WEB
Model	M830B Netsure Control Unit (NCU)

